

WHAT IS CLAIMED IS:

1                   1. A telecommunication control system for  
2 an interactive instruction network system comprising:

3                   an presenter software interface displaying  
4 communication signals in a host compatible software  
5 language;

6                   a presentation server modifying said  
7 communication signals by performing a plurality of  
8 presenter chosen tasks via said presenter software  
9 interface;

10                  two or more bi-directional client adapters  
11 converting communication signals between said host  
12 compatible software language and two or more  
13 heterogeneous client type compatible software  
14 languages; and

15                  one or more Internet data adapter(s)  
16 directing said communication signals between said  
17 presenter software interface and said two or more  
18 heterogeneous client types via one or more Internet  
19 protocols.

1                   2. A system as in claim 1 wherein said  
2 communication signals comprise at least one of a  
3 presentation signal, an instruction signal, a client  
4 type signal, or a response signal.

1                   3. A system as in claim 1 further  
2 comprising an Internet data adapter manager controlling  
3 transmission of said communication signals between said  
4 one or more Internet data adapters and said two or more  
5 bi-directional client adapters.

1                   4. A system as in claim 1 wherein at least  
2 one of said Internet data adapters is a SERGE adapter.

1                   5. A system as in claim 1 wherein said one  
2 or more Internet protocols comprise at least one of a  
3 multicast transport, a unicast transport, a  
4 transmission control protocol, a low bandwidth  
5 protocol, point-to-point protocol, or a user datagram  
6 protocol.

1                   6. An interactive instruction network  
2 system comprising:

3                   two or more of heterogeneous client types at  
4 two or more remote sites;

5                   a host site comprising;

6                   an presenter hardware interface for  
7 communicating with said two or more  
8 heterogeneous client types; and

9                   a controller comprising a  
10 telecommunication control system and  
11 electrically coupled to said presenter  
12 hardware interface and transmitting a  
13 plurality of presenter communication  
14 signals; and

15                   a high-speed data communication transport  
16 electrically coupled to said two or more heterogeneous  
17 client types and said host site, said high-speed data  
18 communication transport providing said two or more  
19 heterogeneous client types access to said plurality of  
20 presenter communication signals and communication  
21 between said host site and said two or more  
22 heterogeneous client types.

1                   7. A system as in claim 6 wherein said  
2 communication transport is an Internet.

1                   8. A system as in claim 7 wherein said  
2 Internet is accessed through at least one of an  
3 Internet service provider, a network service provider,  
4 a corporate modem bank, a digital subscriber line, a  
5 satellite system, or a cable television network.

1                   9. A system as in claim 6 wherein said  
2 telecommunication control system comprises:

3                   an presenter software interface displaying  
4 communication signals in a host compatible software  
5 language;

6                   a presentation server modifying said  
7 communication signals by performing a plurality of  
8 presenter chosen tasks via said presenter software  
9 interface;

10                  two or more bi-directional client adapters  
11 converting communication signals between said host  
12 compatible software language and two or more  
13 heterogeneous client type compatible languages; and

14                  one or more Internet data adapter(s)  
15 directing said communication signals between said  
16 presenter software interface and said two or more  
17 heterogeneous client types via one or more Internet  
18 protocols.

1                   10. A system as in claim 6 wherein a  
2 heterogeneous client type of said two or more client  
3 types is incorporated within an Intranet.

1                   11. A system as in claim 6 wherein a  
2 heterogeneous client type of said two or more client  
3 types comprises a very small aperture terminal  
4 interface.

1                   12. A system as in claim 6 wherein a  
2 heterogeneous client type of said two or more client  
3 types is incorporated within a Bluetooth network.

1                   13. A system as in claim 6 wherein said two  
2 or more heterogeneous client types comprises two or  
3 more of a cellular phone, a computer, a personal  
4 digital assistant, a palm pilot, a scanner, a printer,  
5 a video camera, a telephone, or a facsimile machine.

1                   14. A system as in claim 6 wherein a  
2 heterogeneous client type of said two or more client  
3 types comprises at least one of a microphone, a  
4 keyboard, a mouse, a video monitor, a LCD screen, a 7-  
5 segment display, or a computer.

1                   15. A system as in claim 6 wherein:  
2                   a heterogeneous client type of said two or  
3 more client types comprises a video camera generating a  
4 remote site communication signal; and  
5                   wherein said host site receives said remote  
6 site communication signal via said telecommunication  
7 system.

1                   16. A system as in claim 6 wherein a first  
2 client type is able to receive communication through  
3 said communication transport between said host site and  
4 a second client type.

1                   17. A method of remote educational  
2 instruction over an interactive instruction network  
3 system comprising:

4                   broadcasting a plurality of presenter  
5 communication signals of a presenter from a host site;

6                   establishing a communication connection  
7 between said host site and two or more heterogeneous  
8 client type via a communication transport;

9                   receiving said presenter communication  
10 signals on said two or more heterogeneous client types;  
11 and

12                  displaying or articulating at least one of  
13 said presenter communication signals on said two or  
14 more heterogeneous client types.

1                   18. A method as in claim 17 further  
2 comprising:

3                   generating and transmitting a plurality of  
4 remote site communication signals; and

5                   receiving said plurality of remote site  
6 communication signals on a presenter interface at said  
7 host site.

1                   19. A method as in claim 17 further  
2 comprising receiving communication between said host  
3 site and a first client type at a first remote site by  
4 a second client type at a second remote site.

1                   20. A method of synchronizing and converting  
2 communication signals between a controller and  
3 heterogeneous client types within an interactive  
4 instruction network system, said method comprising:

5               displaying communication signals on a  
6  presenter interface;  
7               modifying said communicational signals;  
8               converting said communication signals between  
9  a host language and two or more heterogeneous client  
10 type languages;  
11              time synchronizing the communication signals;  
12  and  
13              displaying the communication signals on  
14  multiple learning media at multiple remote locations.